

REMARKS

Prior to entry of this paper, claims 1-20 were pending. Claims 1, 3, 5, and 20 were rejected; Claims 11-19 were allowed; and Claims 2, 4, and 6-10 were objected to, but were identified as being allowable if re-written in independent form. In this paper, Claims 4 and 6 are re-written in independent form, and new Claims 21-24 are added. Claims 1-24 are currently pending. No new matter is added by way of this amendment. For at least the following reasons, Applicants respectfully submit that each of the presently pending claims is in condition for allowance.

Allowable Subject Matter (Claims 2, 4, and 6-19)

Claims 11-19 are allowed. Applicants thank the Examiner for his work on this matter.

Claims 2, 4, and 6-10 were objected to, but were identified as being allowable if re-written in independent form. In this paper, Claims 4 and 6 are re-written in independent form. Claims 7-10 depend from independent Claim 6. For at least this reason, it is respectfully submitted that Claims 4 and 6-10 are in condition for allowance.

Claim 2 is respectfully submitted to be in condition for allowance at least because it depends on independent Claim 1, which is proposed to be allowable for at least the reasons stated below.

Rejections under 35 U.S.C. § 102(b) (Claims 1, 3, 5, and 20)

Claims 1, 3, 5, and 20 were rejected under 35 U.S.C. §102(b) as being anticipated by Kunst (U.S. Patent No. 6,008,685). The rejection to Claims 1, 3, and 5 are respectfully traversed. The rejection to Claim 20 is respectfully rendered moot by the amendment to Claim 20.

Claim 1

First, Claim 1 is respectfully submitted to be allowable at least because Kunst does not disclose, "two signal channels that are configured to receive, at first and second sense nodes, a differential input signal from a **dual junction** temperature sensor circuit" (emphasis added), as recited in Applicants' Claim 1.

temperature signal in the circuit of Fig. 2 of Kunst. Accordingly, Kunst does not disclose all of the limitations of Claim 1.

Claims 3 and 5

Claims 3 and 5 are respectfully submitted to allowable at least because they depend from Claim 1, which is proposed to be allowable.

Additionally, Claim 5 is respectfully submitted to be allowable at least because Kunst does not disclose, “multiplexing which one of the bias currents is provided to which one of the two signal channels”, as recited in Applicants’ Claim 5. The Office Action states that the two signal channels are switches S1 and S2. In Kunst, there is no circuitry that multiplexes which one of the bias currents is provided to which one of the two signal channels. This would multiplexing between: current I1 being provided to switch S1 and current I2 being provided to switch S2, and current I2 being provided to switch S1 and current I1 being provided to switch S2. Kunst does not disclose two different bias current being swapped between switch S1 and switch S2. Accordingly, Kunst does not disclose all of the limitations of Claim 5.

Claim 20

Claim 20 is respectfully submitted to be allowable at least because Kunst does not disclose, “means for converting the differential intermediate signal into a temperature signal that is related to a temperature of a remote device such that the temperature of the remote device is calculated based on a voltage difference between two pn junctions”, as recited in Applicants’ Claim 20 as amended.

New Claims 21-24

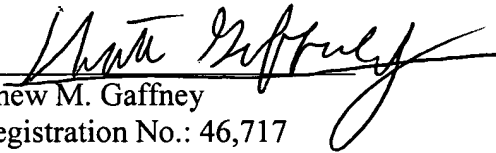
New Claims 21-24 are respectfully submitted to be allowable at least because they depend on Claim 1, which is proposed to be allowable.

CONCLUSION

It is respectfully submitted that each of the presently pending claims (Claims 1-24) are in condition for allowance and notification to that effect is requested. Examiner is invited to contact the Applicants' representative at the below-listed telephone number if it is believed that the prosecution of this application may be assisted thereby. Although only certain arguments regarding patentability are set forth herein, there may be other arguments and reasons why the claimed invention is patentable. Applicant reserves the right to raise these arguments in the future.

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Respectfully submitted,

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